

UNITED STATES PATENT AND TRADEMARK OFFICE

10/550219

In re Application of: Frank Joerdens et al

JC05 Rec'd PCT/PTO 19 SEP 2005

Application Number: Unassigned

Filing Date: Concurrently Herewith

Group Art Unit:

Examiner:

Title: VITREOUS PRINTING BY MEANS OF A SILK SCREEN  
PROCESS

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. 1.98, I am submitting a completed "INFORMATION DISCLOSURE STATEMENT BY APPLICANTS" (*Form PTO/SB/08A*) with patents and/or publications as delineated therein attached.

EP 0 672 736 discloses coating compsns. contain (A) polysiloxane(s), (B) reactive inorganic filler(s) and (C) inorganic material(s) forming a film in the melt. Also claimed is the prepn. of the compsns. by mixing these ingredients and opt. also (D) additives at room temp. Pref. compsns. comprise, by wt., 3-60% (A), 1-40% (B), 3-90% (C) and 0-54 (esp.  $\geq 1$ )% (D).

DE 198 28 759 discloses a process involving a liquid silicone rubber mixture consisting of: (a) At least one crosslinkable organopolysiloxane, (b) at least one crosslinking agent, (c) a reinforced filler, (d) pigments, and (e) at least one solvent of evaporation number less than 70 is new. Independent claims are included for: (1) Preparation of the silicone rubber mixture (SRM) by mixing components (a)-(e); (2) preparation of the SRM involving preparation of a mixture of at least one crosslinkable organosiloxane (a), filler (c), pigment (d), solvent (e), organosiloxane (b1) from units of formula (II) below, and inhibitor (b2), followed by stirring in of a Pt catalyst (b3); (3) preparation of a crosslinkable liquid SRM involving preparation of a mixture of at least one crosslinkable organosiloxane (a), filler (c), and pigment (d), addition and mixing in of solvent (e), separation of the mixture into two components, stirring of a Pt catalyst (b3) into one of the separated components, and the

10/550219

organopolysiloxane and inhibitor into the other component, and mixing of the two separated components; (4) prevention of pigment agglomeration to particles  $\sim$  50 micron by straining the solvent-containing pigment/silicone dispersion; (5) multicolor printing of substrates involving application of printing pastes from silicone rubber mixtures by means of a pad printing unit, followed by vulcanization; (6) a printed substrate obtained as in (5).

EP 0 670 290 Enamel coating a glass surface comprises using a printing ink contg. an inorganic binder, at least one cpd. having a low m. pt. and being capable of vitrifying and one or more constituents having high melting points, such as pigments. The inorganic binder is an aq. suspension of a metallic oxide having a granulometry in the order of nm, which undergoes polycondensation when heated and forms a non-hydrolysable glass. After drying the coating is fired at 500-700 degrees C.

DE 195 25 658 discloses a storable printing paste for printing glass surfaces contains a low melting glass component, inorganic colouring pigments and an organic and/or inorganic binder component for adjusting the flow properties required for the printing process and to give the printed layer sufficient strength after drying. The colouring pigments consist of carbon, titanium nitride, magnetite, hematite and/or copper chromite and are encased with a 0.5-5  $\mu$  m thick layer of a glass or a heat-hardened gel corresponding to a glass composition. Also claimed is a method for producing the above storable printing paste which comprises producing the gel layer by a sol gel process followed by tempering at near to the transformation temperature of the glass to produce the corresponding glass.

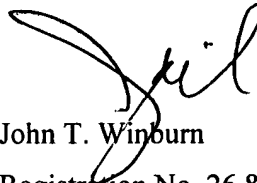
DE 100 07 923 discloses the door panel (2) accessible from the door outside is made from borosilicate glass which when the door is closed faces the oven chamber. The enamel paint (20) used for printing the user instructions or the like is applied to the outer surface of the inner panel which adjoins the outside area of the door so as to reduce the risk of the glass breaking in the event of impact knocks.

DE 198 14 211 discloses a printed oven front glass pane is produced by low temperature drying and curing of an applied liquid mixture of a dye solution, a hardener and optionally a binder. A color printed oven front glass pane is produced by (a) printing the pane with a liquid mixture of a dye solution, a hardener and optionally a binder; and (b) heating at below 200 deg C to effect solvent evaporation and curing by chemical crosslinking between the dye and the hardener. Independent claims are also included for the following: (i) a domestic oven with a door fitted with a front glass pane which has been printed by the above process; and (ii) a domestic oven with a glass operating panel which has been printed by the above process.

10/550219

If no translation of pertinent portions of any foreign language patents or publications mentioned within the "INFORMATION DISCLOSURE STATEMENT BY APPLICANTS" is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the Applicants. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned US patents and US patent application publications are submitted for this application which was filed after June 30, 2003.

Respectfully submitted



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September 19, 2005

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

Complete if Known

Application Number	Unassigned
Filing Date	Herewith
First Named Inventor	Frank Joerdens et al
Art Unit	
Examiner Name	
Attorney Docket Number	2003P00282WOUS

10/550219

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,962,568	10-05-1999	Owen H. Decker	
		US- 6,863,923	03-08-2005	Axel Kalleder	
		US- 6,162,498	12-19-2000	Martin Mennig	
		US- 5,716,424	02-10-1998	Martin Mennig	
		US- 5,731,091	03-24-1998	Helmut Schmidt	
		US- 2003/0059540	03-27-2003	Anette Berni	
		US- 6,620,514	09-16-2003	Antalya Ertugrul Arpac	
		US- 5,443,669	08-22-1995	Gerhard Tuenker	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		EP 0 672 736	09-20-1995	Dr. Jan Mazanek		
		DE 198 28 759	12-30-1999	Thomas Naumann		
		EP 0 670 290	09-06-1995	Axel Kalleder		
		DE 195 25 658	11-28-1996	Dr. Wolfgang Schaefer		
		DE 100 07 923	10-31-2001	Rolf Stahlmann		
		DE 198 14 211	10-07-1999	Harald Poerner		

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SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

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Application Number	Unassigned
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First Named Inventor	Frank Joerdens et al
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**Art Unit**

**Examiner Name**

Attorney Docket Number	2003P00282WOUS
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## U. S. PATENT DOCUMENTS

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		Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		International Search Report EP/2004/003079				✓

Examiner Signature		Date Considered	
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